EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	177	STmicroelectronics.asn. and pump and voltage and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/03 20:28
L3	108	L2 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 20:28
S1	1	"10580324"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:27
S2	2	"6106245".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:30
S3	2	"6032923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:41
S4	2	"5367878".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:42
S5	10	("5367878" | "5705018" | "6007309" | "6032923" | "6106245").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 17:10

S6	69	("3381623" | "3803424" | "4115036" | "4453169" | "4498850" | "4938742" | "5078581" | "5096388" | "5176358" | "5180288" | "5192197" | "5499909" | "5725363" | "5759014" | "5759015").PN. OR ("6106245").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 17:17
S7	80	("2403692" | "2975307" | "3304446" | "3381623" | "3414010" | "3641373" | "3769531" | "3803424" | "3947644" | "4115036" | "4140936" | "4197737" | "4418886" | "4453169" | "4478076" | "4478077" | "4498850" | "4501144" | "4539575" | "4576050" | "4581624" | "4651564" | "4654546" | "4722360" | "4756508" | "4821999" | "4898200" | "4911616" | "4938742" | "4939405" | "5065978" | "5069419" | "5078581" | "5082242" | "5085562" | "5096388" | "5129794" | "5148074" | "5171132" | "5176358" | "5180288" | "5180623" | "5206557" | "5219278" | "5224843" | "5244527" | "5244537" | "5322258" | "5323999" | "5325880" | "5441597" | "5452878" | "5499909" | "5541465" | "5552654" | "5571401" | "5642015" | "5683159" | "5725363" | "5759014" | "5759015" | "5822170" | "5836750" | "5863708" | "5901939" | "5911872" | "5954079" | "6106245" | "6179586" | "6182941" | "6184607" | "6192197" | "6215221" | "6240944" | "6288472").PN. OR ("6968862").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 17:24
S8	521	(micropump or micro-pump) and (cavity vacuum) and conduct$4 and substrate and (dielectric insulat$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 17:38

S9	35	(micropump or micro-pump) and (cavity vacuum) and conduct$4 and substrate and (dielectric insulat$3) and voltage and membrane and duct	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 17:39
S10	81	("20020067992" | "2403692" | "2975307" | "3304446" | "3381623" | "3641373" | "3769531" | "3803424" | "3947644" | "4115036" | "4140936" | "4197737" | "4453169" | "4478076" | "4478077" | "4498850" | "4501144" | "4539575" | "4576050" | "4651564" | "4654546" | "4756508" | "4821999" | "4911616" | "4938742" | "4939405" | "5065978" | "5069419" | "5078581" | "5082242" | "5085562" | "5096388" | "5129794" | "5148074" | "5171132" | "5176358" | "5180288" | "5180623" | "5192197" | "5206557" | "5219278" | "5224843" | "5244527" | "5244537" | "5322258" | "5323999" | "5441597" | "5452878" | "5499909" | "5541465" | "5542821" | "5552654" | "5571401" | "5642015" | "5683159" | "5725363" | "5759014" | "5759015" | "5836750" | "5863708" | "5901939" | "5911872" | "6106245" | "6179586" | "6184607" | "6215221" | "6450773" | "6508528" | "6520753" | "6579068").PN. OR ("6767190").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 18:23
S11	44	(micropump or micro-pump or mesopump or meso-pump or microvalve or micro-valve) and (cavity vacuum) and conduct$4 and substrate and (dielectric insulat$3) and voltage and membrane and duct	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 18:31

S12	810	STmicroelectronics.asn. and pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:50
S13	728	STmicroelectronics.asn. and pump and voltage	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:51
S14	164	STmicroelectronics.asn. and pump and voltage and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:51
S15	1725	417/53.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:51
S16	1710	257/706.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:52
S17	378	257/e21.495.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:52
S18	584	257/e23.08.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:53
S19	84	("20020067992" | "2403692" | "2975307" | "3304446" | "3381623" | "3641373" | "3769531" | "3803424" | "3947644" | "4115036" | "4140936" | "4197737" | "4453169" | "4478076" | "4478077" | "4498850" | "4501144" | "4539575" | "4576050" | "4651564" | "4654546" | "4756508" | "4821999" | "4911616" | "4938742" | "4939405" | "5065978" | "5069419" | "5078581" | "5082242" | "5085562" | "5096388" | "5129794" | "5148074" | "5171132" | "5176358" | "5180288" | "5180623" | "5192197" | "5206557" | "5219278" | "5224843" | "5244527" | "5244537" | "5322258" | "5323999" | "5441597" | "5452878" | "5499909" | "5541465" | "5542821" | "5552654" | "5571401" | "5642015" | "5683159" |	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 18:11

		"5725363" | "5759014" | "5759015" | "5836750" | "5863708" | "5901939" | "5911872" | "6106245" | "6179586" | "6184607" | "6215221" | "6450773" | "6508528" | "6520753" | "6579068").PN. OR ("6767190").URPN.				
S20	19	("20050283330" | "3264861" | "4206761" | "4377851" | "5665899" | "5693886" | "5836750" | "6106245" | "6179586" | "6184607" | "6374191" | "6432721" | "6568286" | "6644117" | "6649416" | "6729856" | "6758107" | "6767190").PN. OR ("7216048").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 18:12
S21	83	("2403692" | "2975307" | "3304446" | "3381623" | "3641373" | "3769531" | "3803424" | "3947644" | "4115036" | "4140936" | "4197737" | "4453169" | "4478076" | "4478077" | "4498850" | "4501144" | "4539575" | "4576050" | "4651564" | "4654546" | "4756508" | "4786472" | "4821999" | "4911616" | "4938742" | "4939405" | "5065978" | "5069419" | "5078581" | "5082242" | "5085562" | "5096388" | "5129794" | "5148074" | "5171132" | "5176358" | "5180288" | "5180623" | "5192197" | "5206557" | "5212993" | "5219278" | "5224843" | "5244537" | "5322258" | "5323999" | "5441597" | "5452878" | "5499909" | "5541465" | "5552654" | "5571401" | "5642015" | "5683159" | "5725363" | "5759014" | "5759015" | "5798600" | "5836750" | "5863708" | "5901939" | "5911872" | "5961298" | "6106245" | "6179586" | "6184607" | "6184697" | "6215221" | "6382228").PN. OR ("6758107").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 18:27

| S22 | 84 | ("20020067992" \| "2403692" \| "2975307" \| "3304446" \| "3381623" \| "3641373" \| "3769531" \| "3803424" \| "3947644" \| "4115036" \| "4140936" \| "4197737" \| "4453169" \| "4478076" \| "4478077" \| "4498850" \| "4501144" \| "4539575" \| "4576050" \| "4651564" \| "4654546" \| "4756508" \| "4821999" \| "4911616" \| "4938742" \| "4939405" \| "5065978" \| "5069419" \| "5078581" \| "5082242" \| "5085562" \| "5096388" \| "5129794" \| "5148074" \| "5171132" \| "5176358" \| "5180288" \| "5180623" \| "5192197" \| "5206557" \| "5219278" \| "5224843" \| "5244527" \| "5244537" \| "5322258" \| "5323999" \| "5441597" \| "5452878" \| "5499909" \| "5541465" \| "5542821" \| "5552654" \| "5571401" \| "5642015" \| "5683159" \| "5725363" \| "5759014" \| "5759015" \| "5836750" \| "5863708" \| "5901939" \| "5911872" \| "6106245" \| "6179586" \| "6184607" \| "6215221" \| "6450773" \| "6508528" \| "6520753" \| "6579068").PN. OR ("6767190").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/05/20 18:41 |
| S23 | 80 | ("2403692" \| "2975307" \| "3304446" \| "3381623" \| "3414010" \| "3641373" \| "3769531" \| "3803424" \| "3947644" \| "4115036" \| "4140936" \| "4197737" \| "4418886" \| "4453169" \| "4478076" \| "4478077" \| "4498850" \| "4501144" \| "4539575" \| "4576050" \| "4581624" \| "4651564" \| "4654546" \| "4722360" \| "4756508" \| "4821999" \| "4898200" \| "4911616" \| "4938742" \| "4939405" \| "5065978" \| "5069419" \| "5078581" \| "5082242" \| "5085562" \| "5096388" \| "5129794" \| "5148074" \| | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/05/20 19:17 |

		"5171132" | "5176358" | "5180288" | "5180623" | "5206557" | "5219278" | "5224843" | "5244527" | "5244537" | "5322258" | "5323999" | "5325880" | "5441597" | "5452878" | "5499909" | "5541465" | "5552654" | "5571401" | "5642015" | "5683159" | "5725363" | "5759014" | "5759015" | "5822170" | "5836750" | "5863708" | "5901939" | "5911872" | "5954079" | "6106245" | "6179586" | "6182941" | "6184607" | "6192197" | "6215221" | "6240944" | "6288472").PN. OR ("6968862").URPN.				
S24	554	(micropump or micro-pump) and (cavity vacuum) and conduct$4 and substrate and (dielectric insulat$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:23
S25	344	S24 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:24
S26	789	((micropump or micro-pump or pump) with substrate).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:37
S27	527	S26 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:37
S28	1	"6032923".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:42
S29	51	("3243181" | "3405977" | "3414331" | "3422411" | "3437335" | "3550964" | "3918706" | "4493548" | "4577854" | "4618292" | "4874273" | "5284179" | "5497987" | "5634636" | "5897097").PN. OR ("6032923").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:44
S30	1	"5367878".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:49
S31	1	"5705018".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:51
S32	1	"6007309".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:51

| S33 | 80 | ("2403692" \| "2975307" \| "3304446" \| "3381623" \| "3414010" \| "3641373" \| "3769531" \| "3803424" \| "3947644" \| "4115036" \| "4140936" \| "4197737" \| "4418886" \| "4453169" \| "4478076" \| "4478077" \| "4498850" \| "4501144" \| "4539575" \| "4576050" \| "4581624" \| "4651564" \| "4654546" \| "4722360" \| "4756508" \| "4821999" \| "4898200" \| "4911616" \| "4938742" \| "4939405" \| "5065978" \| "5069419" \| "5078581" \| "5082242" \| "5085562" \| "5096388" \| "5129794" \| "5148074" \| "5171132" \| "5176358" \| "5180288" \| "5180623" \| "5206557" \| "5219278" \| "5224843" \| "5244527" \| "5244537" \| "5322258" \| "5323999" \| "5325880" \| "5441597" \| "5452878" \| "5499909" \| "5541465" \| "5552654" \| "5571401" \| "5642015" \| "5683159" \| "5725363" \| "5759014" \| "5759015" \| "5822170" \| "5836750" \| "5863708" \| "5901939" \| "5911872" \| "5954079" \| "6106245" \| "6179586" \| "6182941" \| "6184607" \| "6192197" \| "6215221" \| "6240944" \| "6288472").PN. OR ("6968862").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/05/21 12:53 |
| S34 | 2 | "6837476".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/21 14:10 |

S35	91	("2403692" | "2975307" | "3304446" | "3381623" | "3414010" | "3641373" | "3769531" | "3803424" | "3947644" | "4115036" | "4140936" | "4197737" | "4418886" | "4453169" | "4478076" | "4478077" | "4498850" | "4501144" | "4539575" | "4576050" | "4581624" | "4651564" | "4654546" | "4722360" | "4756508" | "4821999" | "4898200" | "4911616" | "4938742" | "4939405" | "5065978" | "5069419" | "5078581" | "5082242" | "5085562" | "5096388" | "5129794" | "5148074" | "5171132" | "5176358" | "5180288" | "5180623" | "5192197" | "5206557" | "5219278" | "5224843" | "5244527" | "5244537" | "5322258" | "5323999" | "5325880" | "5441597" | "5452878" | "5499909" | "5541465" | "5552654" | "5571401" | "5642015" | "5683159" | "5725363" | "5759014" | "5759015" | "5822170" | "5836750" | "5863708" | "5901939" | "5911872" | "5954079" | "6106245" | "6179586" | "6182941" | "6184607" | "6215221" | "6288472"). PN. OR ("6837476").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 18:16
S36	14	("5367878" | "5705018" | "6007309" | "6032923" | "6106245" | "6767190" | "6837476").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/02 18:40
S37	177	STmicroelectronics.asn. and pump and voltage and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/02 22:08
S38	75	S37 and @ad<"20021125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:08
S39	78170	(pump or valve) and membrane and @ad<"20021125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:10

S40	93534	(pump or valve) and membrane and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:11
S41	7038	S40 and substrate and (cavity opening hollow) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:13
S42	378	S41 and (membrane and (conductive or metal) and (cavity opening)).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:18
S43	674	257/e21.495.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 23:07
S44	4	S43 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 23:07
S45	85	cabuz.in. and valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/02 23:54
S46	225	347/112.ccls. and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 23:57
S47	471	137/613.ccls. and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:01
S48	253	("2403692" | "2975307" | "20020078756" | "20020174706" | "20030005774" | "20030019299" | "20030033884" | "20030189809" | "20030205090" | "20030234376" | "20040035211" | "20040060360" | "20040055651" | "3304446" | "3381623" | "3414010" | "3641373" | "3769531" | "3803424" | "3947644" | "3993939" | "4115036" | "4140936" | "4197737" | "4360955" | "4418886" | "4453169" | "4478076" | "4478077" | "4498850" | "4501144" | "4539575" | "4576050" | "4581624" | "4585209" | "4619438" | "4651564" | "4654546" | "4722360" | "4756508" | "4821999" | "4829826" | "4898200" | "4911616" | "4938742" | "4939405" | "5065978" | "5069419" | "5078581" |	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/03 00:08

		"5082242" | "5085562" | "5096388" | "5129794" | "5148074" | "5171132" | "5176358" | "5180288" | "5180623" | "5186054" | "5192197" | "5206557" | "5219278" | "5224843" | "5244527" | "5244537" | "5322258" | "5323999" | "5325880" | "5336062" | "5368571" | "5441597" | "5452878" | "5499909" | "5526172" | "5529465" | "5536963" | "5541465" | "5552654" | "5571401" | "5642015" | "5683159" | "5696662" | "5725363" | "5759014" | "5759015" | "5792957" | "5808205" | "5810325" | "5822170" | "5836750" | "5839467" | "5863708" | "5901939" | "5911872" | "5954079" | "5971355" | "6106245" | "6109889" | "6116863" | "6122973" | "6126140" | "6151967" | "6167761" | "6179586" | "6182941" | "6184607" | "6215221" | "6240944" | "6288472" | "6373682" | "6418793" | "6445053" | "6496348" | "6508528" | "6520753" | "6590267" | "6640642" | "6651506").PN.				
S49	22988	(micropump or micro-pump valve) and (cavity vacuum opening hollow) and conduct$4 and substrate and (dielectric insulat$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:30
S50	18510	(micropump or micro-pump valve) and (cavity opening hollow) and conduct$4 and substrate and (dielectric insulat$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:30
S51	5448	S50 and (membrane diaphraghm)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:31
S52	5238	S51 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:32
S53	5115	S52 and (conductive metal)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:33

S54	297	S53 and (membrane and (conductive or metal) and (cavity opening hollow)). clm.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:35
S55	2495	S53 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:35
S56	231	S54 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:36
S57	53	S53 and (membrane with (conductive or metal) with (cavity opening hollow))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:36
S58	28	S57 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:37
S59	6395	(micropump or micro-pump valve) and (cavity opening hollow) and conduct$4 and substrate and (dielectric insulat$3) and voltage and (membrane diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:05
S60	6089	S59 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:06
S61	1553	S60 and (first with second with (opening cavity hollow))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:07
S62	771	S61 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:07
S63	79	("3381623" | "3803424" | "4115036" | "4453169" | "4498850" | "4938742" | "5078581" | "5096388" | "5176358" | "5180288" | "5192197" | "5499909" | "5725363" | "5759014" | "5759015").PN. OR ("6106245").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 10:35
S64	124	("20020078756" | "20020174706" | "20030005774" | "20030019299" | "20030033884" | "20030189809" | "20030205090" | "20030234376" | "20040035211" | "20040055651" | "20040060360" | "2403692" | "2975307" | "3304446" | "3381623" | "3414010" | "3641373" | "3769531" | "3803424" | "3947644" | "3993939" | "4115036" | "4140936" | "4197737" | "4360955" |	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 10:39

		"4418886" | "4453169" | "4478076" | "4478077" | "4498850" | "4501144" | "4539575" | "4576050" | "4581624" | "4585209" | "4619438" | "4651564" | "4654546" | "4722360" | "4756508" | "4821999" | "4829826" | "4898200" | "4911616" | "4938742" | "4939405" | "5065978" | "5069419" | "5078581" | "5082242" | "5085562" | "5096388" | "5129794" | "5148074" | "5171132" | "5176358" | "5180288" | "5180623" | "5186054" | "5192197" | "5206557" | "5219278" | "5224843" | "5244527" | "5244537" | "5322258" | "5323999" | "5325880" | "5336062" | "5368571" | "5441597" | "5452878" | "5499909" | "5526172" | "5529465" | "5536963" | "5541465" | "5552654" | "5571401" | "5642015" | "5683159" | "5696662" | "5725363" | "5759014" | "5759015" | "5792957" | "5808205" | "5810325" | "5822170" | "5836750" | "5839467" | "5863708" | "5901939" | "5911872" | "5954079" | "5971355" | "6106245" | "6109889" | "6116863" | "6122973" | "6126140" | "6151967" | "6167761" | "6179586" | "6182941" | "6184607" | "6215221" | "6240944" | "6288472" | "6373682" | "6418793" | "6445053" | "6496348" | "6508528" | "6520753" | "6590267" | "6640642" | "6651506").PN. OR ("7222639").URPN.				
S65	32	("3993939" | "4225755" | "4360955" | "4584885" | "4829826" | "4996627" | "5019783" | "5048165" | "5801313").PN. OR ("6151967").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 10:51

| S66 | 124 | ("20020078756" \| "20020174706" \| "20030005774" \| "20030019299" \| "20030033884" \| "20030189809" \| "20030205090" \| "20030234376" \| "20040035211" \| "20040055651" \| "20040060360" \| "2403692" \| "2975307" \| "3304446" \| "3381623" \| "3414010" \| "3641373" \| "3769531" \| "3803424" \| "3947644" \| "3993939" \| "4115036" \| "4140936" \| "4197737" \| "4360955" \| "4418886" \| "4453169" \| "4478076" \| "4478077" \| "4498850" \| "4501144" \| "4539575" \| "4576050" \| "4581624" \| "4585209" \| "4619438" \| "4651564" \| "4654546" \| "4722360" \| "4756508" \| "4821999" \| "4829826" \| "4898200" \| "4911616" \| "4938742" \| "4939405" \| "5065978" \| "5069419" \| "5078581" \| "5082242" \| "5085562" \| "5096388" \| "5129794" \| "5148074" \| "5171132" \| "5176358" \| "5180288" \| "5180623" \| "5186054" \| "5192197" \| "5206557" \| "5219278" \| "5224843" \| "5244527" \| "5244537" \| "5322258" \| "5323999" \| "5325880" \| "5336062" \| "5368571" \| "5441597" \| "5452878" \| "5499909" \| "5526172" \| "5529465" \| "5536963" \| "5541465" \| "5552654" \| "5571401" \| "5642015" \| "5683159" \| "5696662" \| "5725363" \| "5759014" \| "5759015" \| "5792957" \| "5808205" \| "5810325" \| "5822170" \| "5836750" \| "5839467" \| "5863708" \| "5901939" \| "5911872" \| "5954079" \| "5971355" \| "6106245" \| "6109889" \| "6116863" \| "6122973" \| "6126140" \| "6151967" \| "6167761" \| | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/11/03 10:53 |

		"6179586" | "6182941" | "6184607" | "6215221" | "6240944" | "6288472" | "6373682" | "6418793" | "6445053" | "6496348" | "6508528" | "6520753" | "6590267" | "6640642" | "6651506").PN. OR ("7222639").URPN.				
S67	42	("4895500" | "4911616" | "4923000" | "4938742"). PN. OR ("5078581").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 11:04
S68	8	("3947156" | "4634430" | "5145336" | "5669764" | "6019135" | "6098991" | "6106245").PN. OR ("6971859").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 11:29
S69	6395	(micropump or micro-pump valve mesopump meso $1pump) and (cavity opening hollow) and conduct$4 and substrate and (dielectric insulat$3) and voltage and (membrane diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:18
S70	264	S69 and ((inlet outlet) near4 (smaller bigger larger))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:35
S71	75	S70 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:35
S72	1	"6032923".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:42
S73	13	"0779436"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:44
S74	1	"5367878".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:44
S75	38	("3524031" | "4821997" | "4824073" | "4943032" | "4965415" | "4966646" | "5164558" | "5177579" | "5186001").PN. OR ("5367878").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 12:46
S76	45	("3168805" | "3256686" | "3739573" | "3802462" | "4170878" | "4543788" | "5197192" | "5210817" | "5268082" | "5322258" | "5325880" | "5344117" | "5367878").PN. OR ("5671905").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 12:52

S77	10	("0668682" | "2548708" | "3905195" | "4149383").PN. OR ("4543788").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 12:56
S78	91	("2403692" | "2975307" | "3304446" | "3381623" | "3414010" | "3641373" | "3769531" | "3803424" | "3947644" | "4115036" | "4140936" | "4197737" | "4418886" | "4453169" | "4478076" | "4478077" | "4498850" | "4501144" | "4539575" | "4576050" | "4581624" | "4651564" | "4654546" | "4722360" | "4756508" | "4821999" | "4898200" | "4911616" | "4938742" | "4939405" | "5065978" | "5069419" | "5078581" | "5082242" | "5085562" | "5096388" | "5129794" | "5148074" | "5171132" | "5176358" | "5180288" | "5180623" | "5192197" | "5206557" | "5219278" | "5224843" | "5244527" | "5244537" | "5322258" | "5323999" | "5325880" | "5441597" | "5452878" | "5499909" | "5541465" | "5552654" | "5571401" | "5642015" | "5683159" | "5725363" | "5759014" | "5759015" | "5822170" | "5836750" | "5863708" | "5901939" | "5911872" | "5954079" | "6106245" | "6179586" | "6182941" | "6184607" | "6215221" | "6288472").PN. OR ("6837476").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 14:38
S79	140	("20020078756" | "20020174706" | "20020192113" | "20030005774" | "20030019299" | "20030033884" | "20030142291" | "20030189809" | "20030205090" | "20030234376" | "20040035211" | "20040060360" | "2403692" | "2975307" | "3304446" | "3381623" | "3414010" | "3641373" |	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 14:39

"3769531" | "3803424" |
"3947644" | "3993939" |
"4115036" | "4140936" |
"4197737" | "4360955" |
"4418886" | "4453169" |
"4478076" | "4478077" |
"4498850" | "4501144" |
"4539575" | "4576050" |
"4581624" | "4585209" |
"4619438" | "4651564" |
"4654546" | "4722360" |
"4756508" | "4821999" |
"4829826" | "4898200" |
"4911616" | "4938742" |
"4939405" | "5065978" |
"5069419" | "5078581" |
"5082242" | "5085562" |
"5096388" | "5129794" |
"5148074" | "5171132" |
"5176358" | "5180288" |
"5180623" | "5186054" |
"5192197" | "5206557" |
"5219278" | "5224843" |
"5244527" | "5244537" |
"5322258" | "5323999" |
"5325880" | "5336062" |
"5368571" | "5417235" |
"5441597" | "5452878" |
"5499909" | "5526172" |
"5529465" | "5536963" |
"5541465" | "5552654" |
"5571401" | "5642015" |
"5683159" | "5696662" |
"5725363" | "5759014" |
"5759015" | "5792957" |
"5808205" | "5822170" |
"5836750" | "5839467" |
"5863708" | "5901939" |
"5911872" | "5954079" |
"5971355" | "6106245" |
"6109889" | "6116863" |
"6122973" | "6151967" |
"6167761" | "6179586" |
"6182941" | "6184607" |
"6184608" | "6211580" |
"6215221" | "6240944" |
"6255758" | "6288472" |
"6358021" | "6373682" |
"6382228" | "6382588" |
"6418793" | "6432721" |
"6445053" | "6496348" |
"6508528").PN. OR
("6520753" | "6549275" |
"6568286" | "6590267" |
"6597438" | "6640642" |
"6644117" | "6649416" |
"6651506" | "6729856" |

		"6750589" | "6758107" | "6767190" | "6837476"). PN. OR ("7445017").URPN.				
S80	32	("3993939" | "4225755" | "4360955" | "4584885" | "4829826" | "4996627" | "5019783" | "5048165" | "5801313").PN. OR ("6151967").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 14:49
S81	6395	(micropump or micro-pump valve mesopump meso $1pump) and (cavity opening hollow) and conduct$4 and substrate and (dielectric insulat$3) and voltage and (membrane diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 14:57
S82	871	S81 and ((opening) near4 (smaller bigger larger))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 14:57
S83	15	S81 and (((opening) near4 (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:00
S84	0	S81 and (((vent) near4 (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:03
S85	0	S81 and (((duct) near4 (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:03
S86	1025	S81 and ((opening) with (smaller bigger larger))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:35
S87	44	S81 and (((opening) with (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:36
S88	8	S81 and (((opening) with (smaller bigger larger)) with first with second).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:41
S89	573	S81 and ((opening duct) same (smaller bigger larger) same (fluid liquid) same flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:49
S90	26	S81 and ((opening duct) with (smaller bigger larger) with (fluid liquid) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:50
S91	19	S81 and ((inlet outlet) with (smaller bigger larger) with (fluid liquid) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:54
S92	9	S81 and ((inlet outlet) with (different) with (size) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:57

S93	2	S81 and ((opening duct) with (different) with (size) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:00
S94	83	S81 and ((opening duct) with (different) with (size))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:01
S95	0	251/129/01.ccls. and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:05
S96	429	251/129.01.ccls. and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:06

11/3/2009 9:30:23 PM
C:\Documents and Settings\sahmed7\My Documents\EAST\Workspaces\10580324.wsp